

**sierra  
research**

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August 26, 2005

Mr. Li Chen  
Air Quality Engineer  
South Coast AQMD  
21865 E. Copley Drive  
Diamond Bar, CA 91765-4182

Subject: RECLAIM/Title V Facility Permit for the Inland Empire Energy Center  
(Facility ID 129816)

Dear Mr. Chin:

On behalf of Inland Empire Energy Center LLC, we are pleased to provide the following comments on the District's August 5, 2005 RECLAIM/Title V Facility Permit for the Inland Empire Energy Center (IEEC). To help clarify our comments, we have included a marked-up version of the Facility Permit in a strike-through/underlined format. In the following paragraphs we discuss these comments in more detail.

### 1. NOx RECLAIM Cycle

#### Sections Affected:

- Facility Information, Section A

#### Discussion of Issue

In the District's cover letter to the August 5, 2005 RECLAIM/Title V Facility Permit, the District states that IEEC is a Cycle 1 facility under the NOx RECLAIM program. However, in Section A of the Facility Permit the facility is classified as a Cycle 2 NOx RECLAIM facility. We request that that the District clarify whether the IEEC facility is a Cycle 1 or 2 NOx RECLAIM facility.

### 2. NOx RECLAIM Emission Allocations

#### Sections Affected:

- RECLAIM Annual Emission Allocation, Section B

Discussion of Issue

Calpine recently sold all ownership interests of IEEC LLC to the General Electric Company. As a result, IEEC LLC is now a wholly owned subsidiary of the General Electric Company. The necessary District forms for this transaction will be submitted to the District as a separate package. Since IEEC LLC is now owned by the General Electric Company, we request that the District make an administrative change to this section of the IEEC permit to show the NOx RECLAIM Trading Credits (RTCs) owned by the General Electric Company.

3. Natural Gas H<sub>2</sub>S Content LimitSections Affected:

- Section H, Equipment Description for Unit D1 (page 1)
- Section H, Equipment Description for Unit D2 (page 4)
- Section H, Equipment Description for Unit D3 (page 7)

Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, the natural gas H<sub>2</sub>S content limit is 0.25 grains/100 scf rather than 0.25 grains/scf. Consequently, we request that the District make an administrative change to the IEEC facility permit correcting the units for this limit.

4. NOx Emission FactorsSections Affected:

- Section H, Equipment Description for Unit D1 (page 1)
- Section H, Equipment Description for Unit D2 (page 4)

Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, the NOx factors of 7.36 and 68.26 lbs/MMSCF are classified as RECLAIM emission factors rather than command and control emission limits. Therefore, for these two factors we request that in the Section H equipment description tables, the District make an administrative change to the facility permit, citing the RECLAIM emission factor (footnote 1) rather than the command and control emission limit (footnote 5).

## 5. NSPS NO<sub>x</sub> Limit for Gas Turbines

### Sections Affected:

- Section H, Equipment Description for Unit D1 (page 1)
- Section H, Equipment Description for Unit D2 (page 4)

### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter to the District commenting on the May 13, 2005 preliminary determination for the IEEC project, the NO<sub>x</sub> NSPS limit for the gas turbines should be 123 rather than 180 ppmv. This NO<sub>x</sub> limit change occurs as a result of recognizing the different NSPS calculations associated with a combined-cycle heat rate and a gas turbine-only heat rate. A gas turbine-only heat rate was used because the “affected facility” in the gas turbine NSPS (40 CFR 60 Subpart GG) is only the gas turbine portion of a combined cycle system. Therefore, we request that the District make an administrative change to the IEEC facility permit correcting the applicable NSPS limit.

## 6. Control System Manufacturer

### Sections Affected:

- Section H, Equipment Description for Units C4, C17 (page 3)
- Section H, Equipment Description for Unit C5, C24 (page 6)
- Section H, Equipment Description for Unit C6 (page 7)

### Discussion of Issue

As shown in the District’s May 13, 2005 preliminary determination for the IEEC project, the oxidizing catalyst for the gas turbines will be manufactured by Engelhard rather than Nooter Eriksen. In addition, the SCR catalyst for the gas turbines will be manufactured by Haldor Topsoe rather than Nooter Eriksen and/or Cormatech. Finally, the SCR catalyst for the auxiliary boiler will be manufactured by Peerless rather than Nooter Eriksen and/or Cormatech. Therefore, we request that the District make administrative changes to the IEEC facility permit correcting these vendor names.

## 7. PM<sub>10</sub> Emission Factor – Auxiliary Boiler

### Sections Affected:

- Section H, Equipment Description for Unit D3 (page 7)

Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, the listed emission levels include a PM<sub>10</sub> emission limit of 7.26 lbs/mmscf. Consequently, we request that the District make an administrative change to the IEEC facility permit adding this emission limit.

8. NO<sub>x</sub> RECLAIM Emission Factor – Emergency Generator EnginesSections Affected:

- Section H, Equipment Description for Unit D10 (page 9)

Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, the NO<sub>x</sub> RECLAIM emission factor is 270 lbs/1000 gals rather than 270 lbs/1000 bbls. Consequently, we request that the District make an administrative change to the IEEC facility permit correcting the units for this emissions limit.

9. References to ROGSections Affected:

- Section H, Condition A63.1 (page 15)
- Section H, Condition A63.1 (page 16)
- Section H, Condition D29.1 (page 22)
- Section H, Condition D29.2 (page 24)

Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, rather than Reactive Organic Gas (ROG) the term Volatile Organic Compound (VOC) is used throughout the document. Consequently, we request that the District make an administrative change to the IEEC facility permit to use the same term consistently throughout the document.

10. Gas Turbine Combustor Tuning ActivitiesSections Affected:

- Section H, Condition A195.1 (page 17)
- Section H, Condition A195.2 (page 18)
- Section H, Condition A195.3 (page 18)
- Section H, Condition E193.2 (page 33)

### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, periodically it will be necessary to perform combustor tuning as a result of certain gas turbine maintenance activities. Emission levels during combustor tuning activities are similar to those startup and shutdown periods; emissions may be higher than BACT levels. Therefore, it is necessary to add references to combustor tuning activities into the permit conditions that address gas turbine startups and shutdowns. During our June 7<sup>th</sup> meeting, the District had asked us to define the term "combustor tuning activities". A proposed definition for this term was included in our June 27, 2005 letter to the District. It is our understanding that the District intended on adding combustor tuning activity exemptions and the definition of the term into the final permit, but these changes were inadvertently left out. Consequently, we request that the District make an administrative change to the IEEC facility permit by adding these references to combustor tuning activities

## 11. BACT VOC Limit Exemption During Startups/Shutdowns

### Sections Affected:

- Section H, Condition A195.3 (page 18)

### Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, due to higher emissions during gas turbine startups and shutdowns it is necessary to include an exemption from BACT levels for VOC during these operating periods, comparable to the exemptions already provided for CO and NO<sub>x</sub>. Consequently, we request that the District make an administrative change to the IEEC facility permit restoring this exemption.

## 12. Natural Gas H<sub>2</sub>S Content Monitoring

### Sections Affected:

- Section H, Condition B61.1 (page 19)

### Discussion of Issue

As shown in the District's May 13, 2005 preliminary determination for the IEEC project, the natural gas H<sub>2</sub>S content monitoring allows either gas sampling or gas supplier documentation to demonstrate compliance; the final permit allows only gas sampling. Consequently, we request that the District add this administrative

change to the IEEC facility permit and allow the use of either compliance alternative.

### 13. Aqueous Ammonia Storage Tanks

#### Sections Affected:

- Section H, Condition C157.1 (page 20)

#### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005, we added the phrase “or higher” next to the 25 psia pressure limit in this condition to clarify that the relief valve pressure setting is a minimum rather than a maximum (or exact) limit. It is our understanding that the District intended to make this change to the final permit, but this change was inadvertently left out. Consequently, we request we that the District make an administrative change to the IEEC facility permit adding the clarifying phrase “or higher” to the relief valve pressure limit.

### 14. Gas Turbine Source Testing

#### Sections Affected:

- Section H, Condition D29.1 (pages 22 and 23)

#### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, we have proposed a change to this permit condition to clarify that MW monitoring during the required source test is the power output for the entire system (gas turbine and steam turbine) rather than just that of the gas turbine. Since the S107H system is a common shaft design with a single electrical generator, it is impossible to directly measure the electrical output from only the gas turbine. In addition, as the IEEC project will be the first S107H installation, the lowest air emission compliant load will not be known until field testing and tuning is conducted. As such, we had proposed in our June 27<sup>th</sup> comment letter to make the lowest stack emissions compliance test load 50 percent *or the minimum compliant load achieved*. It is our understanding that the District intended on making these changes to the final permit, but these changes were inadvertently left out. Consequently, we request that the District make the above administrative changes to the IEEC facility permit.

## 15. NOx and CO CEMs Certification Test Reports

### Sections Affected:

- Section H, Condition D82.1 (page 27)
- Section H, Condition D82.2 (page 28)
- Section H, Condition D82.4 (page 28)

### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, included in these permit conditions is a requirement to submit the CEMs certification test reports to the District at the conclusion of the commissioning period and prior to baseload commercial operation of the facility. However, the timing contemplated by these conditions is unworkable. The CEMs certification testing may occur as late as the end of the commissioning period, and the 7-day drift test may extend beyond the end of the commissioning period. In addition, it can take up to 60 days to obtain a test report once the certification testing is finished. Consequently, we had requested a modification to these permit conditions to allow up to 90 days following the end of the commissioning period for the submittal of the CEMs certification test reports to the District. We also proposed to clarify earlier deadlines for the installation of the CO and NOx CEMs for the gas turbines. It is our understanding that the District intended on making these changes to the final permit, but these changes were inadvertently left out. Consequently, we request that the District make the above administrative changes to the IEEC facility permit.

## 16. Ammonia CEMs Requirement

### Sections Affected:

- Section H, Condition D232.1 (page 30)
- Section H, Condition D232.2 (page 31)

### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, we had requested approval of an ammonia slip calculation method as an alternative to the installation and operation of ammonia concentration CEMs. This request was made because CEM systems to monitor ammonia slip at power plants involve relatively new technology; there is insufficient operational information on these systems to provide either the District or IEEC any basis to assure reliability and compliance; and there are no federal performance specifications currently available for these systems. Consequently, we requested the use of the District's standard ammonia slip calculation method. It is our understanding that the District intended on making these changes to the

final permit, but these changes were inadvertently left out. Therefore, we request we that the District make an administrative changes to the IEEC facility permit and restore the District's standard language regarding calculation-based ammonia slip monitoring.

#### 17. CEC Air Quality Mitigation Measures

##### Sections Affected:

- Section H, Condition E193.1 (page 32)

##### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, we believe that this permit condition should only require compliance with the CEC air quality mitigation measures rather than all mitigation measures required by the CEC for the facility (water quality, energy, land use, traffic, noise, visual, etc). It is our understanding that the District intended on making this change to the final permit, but this change was inadvertently left out. Consequently, we request that the District make an administrative change to the IEEC facility permit by limiting the applicability of Condition E193.1 to CEC air quality mitigation measures.

#### 18. Gas Turbine Startup/Shutdown Emission Limits

##### Sections Affected:

- Section H, Condition E193.2 (page 33)

##### Discussion of Issue

As discussed during our meeting with District staff on June 7, 2005 and again in our June 27, 2005 letter, we requested a revision to the NOx and CO emission limits in this permit condition from levels based on an average lb/hr level over the duration of the gas turbine startup/shutdown to the maximum one-hour average levels analyzed in the February 2005 permit application. In addition, we requested a cap on the total NOx and CO emissions during any type of startup or shutdown (hot, warm, or cold startup or shutdown). Furthermore, we requested a deletion of the limit on the number of hours per month for gas turbine startups and shutdowns because the facility has monthly ERC emission limits in Condition A63.1 which should make the number of startup/shutdown hours irrelevant. It is our understanding that the District intended on making these changes to the final permit, but these changes were inadvertently left out. Consequently, we request that the District make administrative changes to the IEEC facility permit incorporating the requested provisions.

If you have any questions or need further information, please don't hesitate to contact me.

Sincerely,



Gary Rubenstein  
Senior Partner

Enclosure

cc: John Yee, SCAQMD  
Connie Bruins, CEC  
CEC Dockets Office, Docket #01-AFC-17C  
Barbara McBride, Calpine  
Craig Matis, GE  
John Gates, GE  
Ken Kohl, GE



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178



(909) 396-2000 • www.aqmd.gov

August 5, 2005

Mr. Michael Hatfield  
Inland Empire Energy Center  
PO Box 11749  
Pleasanton, CA 94588

**SUBJECT:** RECLAIM/Title V Facility Permit  
Inland Empire Energy Center (IEEC), Facility ID No. 129816

Dear Mr. Hatfield:

The South Coast Air Quality Management District (AQMD) would like to welcome you to the RECLAIM/Title V program. Please review the enclosed RECLAIM/Title V Facility Permit carefully as it will serve as the official permit for your facility in the 2005 compliance year from July 1, 2005 through June 30, 2006. Please note the following:

- a) Condition I296 prohibits any equipment subject to that condition from operating until you have obtained sufficient NOx RECLAIM Trading Credits (RTCs) to offset the prorated increase for the first compliance year of operation.

The following application numbers associated with this Facility Permit have been approved for Permits to Construct/Temporary Permits to Operate, and are included in Section H:

Application	Description	Device ID	Process ID
439481	Turbine #1 with HRSG	D1	1
439485	Turbine #2 with HRSG	D2	1
439488	SCR and CO catalyst for turbine #1	C17, C4	1
439489	SCR and CO catalyst for turbine #2	C24, C5	1
439492	Auxiliary boiler	D3	1
439493	SCR for auxiliary boiler	C6	1
439494	Standby generator #1	D9	1
439495	Standby generator #2	D10	1
439496	Emergency fire pump engine	D32	1
439497	Aqueous ammonia tank #1	D7	2
439498	Aqueous ammonia tank #2	D8	2
439499	Facility Title V permit application		

We strive to provide you with the most accurate and comprehensive description of all the equipment requiring AQMD permits at your facility. However, if you believe there are administrative errors in the enclosed permit, please notify AQMD staff immediately. Please note that AQMD Rule 216 also provides you with an opportunity to appeal the terms and conditions of the Facility Permit by petitioning the Hearing Board as described below in Section II - Appeals.

## I. FACILITY PERMIT DESCRIPTION

The enclosed Facility Permit contains the following sections as described below:

**Section A:** This section contains pertinent information relating to your facility. Please note your facility is a Cycle 1 facility. The compliance year for Cycle 1 is from January 1 to December 31 of each year.

**Section B:** This section contains annual emission allocations for your facility, if applicable.

**Sect D & H:** Sections D and H of your RECLAIM/Title V Facility Permit list emission sources at your facility that have been issued a Permit to Operate or a Permit to Construct along with permit conditions for emission sources at your facility. The following principles were used to develop these sections of the permit:

- Each source of emission and air pollution control equipment was assigned a special identification (ID) number. Based on your comments and additional information we received the device ID number may have been changed from the draft permit you received.
- The only equipment listed in your permit are those with emission potentials. The only non-emitting equipment listed are those that are associated with requirements of a specific AQMD rule. The listing of non-emitting equipment do not have any identification numbers assigned to them.
- All equipment exempt under Rule 219 are aggregated and listed together in Appendix A. If your facility is subject to Title V regulations, your exempt equipment may be listed in Section D instead of Appendix A.
- All fugitive sources are aggregated and listed together in your permit.

**Section E:** This section contains administrative conditions that apply to all permitted equipment operating at your facility.

**Section F:** This section highlights some of the monitoring and source testing requirements in Rule 2011 for SOx (if applicable) and 2012 for NOx.

**Section G:** This section contains key recordkeeping and reporting requirements in Rule 2011 for SOx (if applicable) and 2012 for NOx.

**Section I:** This section lists all compliance plans and conditions that have been approved by AQMD. All approved compliance plans for your facility must be included in this section.

Section K: This section contains administrative conditions for facilities that are subject to Title V.

Appendix A: This appendix will list all NOx and SOx equipment exempt from written permit pursuant to Rule 219 at your facility. If your facility currently operates any NOx and/or SOx emitting equipment exempt from written permit pursuant to Rule 219, please make a list of all these equipment and submit this list with your Facility Permit Comments.

Appendix B: This appendix lists all applicable rule emission limits for facilities that are subject to Title V regulation.

## II. APPEALS

As mentioned above, if you determine that certain changes or clarifications need to be made to the description of equipment or permit conditions in any section of your permit, you may appeal the terms and conditions by petitioning the Hearing Board within 30 days of the receipt of the enclosed permit. If you determine there are administrative errors in these sections of your permit, please notify AQMD staff within 30 days of the receipt of your permit. Your facility is still bound by the requirements of your enclosed Facility Permit while your appeal is under consideration by AQMD staff and/or the Hearing Board.

If you have any comments or questions regarding this letter or your facility permit, please contact Mr. Li Chen, Air Quality Engineer, at 909/396-2426 for further information.

Sincerely,



Pang Mueller  
Senior Manager  
Refinery, Energy, and RECLAIM Administration  
Engineering and Compliance

CM:TV:JTY:LC

Enclosure: Final Facility Permit

cc: Gerardo Rios, U.S. EPA  
Connie Bruins, CEC  
Compliance – Cher Snyder-Gonzales, AQMD  
Title V Administration – William Thompson, AQMD (w/o enclosure)  
RECLAIM File - Susan Tsai, AQMD (w/o enclosure)  
AQMD Energy Unit file



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Title Page  
Facility I.D.#: 129816  
Revision #: 0  
Date: August 05, 2005

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## FACILITY PERMIT TO OPERATE

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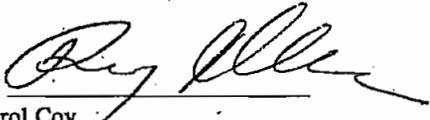
**INLAND EMPIRE ENERGY CENTER, LLC  
26226 ANTELOPE RD  
ROMOLAND, CA 92585**

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By   
Carol Coy  
Deputy Executive Officer  
Engineering & Compliance



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION A: FACILITY INFORMATION**

LEGAL OWNER &/OR OPERATOR: INLAND EMPIRE ENERGY CENTER, LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 26226 ANTELOPE RD  
ROMOLAND, CA 92585

MAILING ADDRESS: PO BOX 11749  
PLEASANTON, CA 94588

RESPONSIBLE OFFICIAL: ROBERT LAMKIN

TITLE: VICE PRESIDENT

TELEPHONE NUMBER: (925) 600-2000

CONTACT PERSON: MIKE HATFIELD

TITLE: DIRECTOR, PROJECT DEVELOPMENT

TELEPHONE NUMBER: (925) 479-6716

INITIAL TITLE V PERMIT ISSUED: AUGUST 5, 2005

TITLE V PERMIT EXPIRATION DATE: AUGUST 4, 2010

TITLE V	RECLAIM
YES	NOx: YES
	SOx: NO
	CYCLE: 2 <u>OR 1</u>
	ZONE: INLAND

X



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase an annual allocation to a level greater than the facility's Starting Allocation plus Non-Tradable Credits as listed below, the application will be evaluated for compliance with Rule 2005(c)(4). Rule 2005(e)-Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year		Zone	NOx RTC Starting Allocation (pounds)	Non-Tradable Credits(NTCs) (pounds)
Begin	End			
7/1994	6 /1995	Inland	0	0



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)



**FACILITY PERMIT TO OPERATE  
 INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3 : RULE 219 EXEMPT EQUIPMENT</b>					
<b>System 1 : RULE 219 EXEMPT EQUIPMENT</b>					
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT	E28			VOC: (9) [RULE 1171,11-7-2003;RULE 1171,5-6-2005]	
RULE 219 EXEMPT EQUIPMENT, COATING OPERATION	E29			VOC: (9) [RULE 1113,11-8-1996;RULE 1113,7-9-2004;RULE 1171,11-7-2003;RULE 1171,5-6-2005]	K67.3

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

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Revision #:	0
Date:	August 05, 2005

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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section D Page: 3  
Facility I.D.: 129816  
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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E28	1	3	1
E29	1	3	1



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

**FACILITY CONDITIONS**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 9-11-1998]

F14.1 The operator shall not burn diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 3-4-2005; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase fuel oil containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

**DEVICE CONDITIONS**

**K. Record Keeping/Reporting**



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E29]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION E: ADMINISTRATIVE CONDITIONS**

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
  - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
  - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
  - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]



## FACILITY PERMIT TO OPERATE INLAND EMPIRE ENERGY CENTER, LLC

### SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
  - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
- a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For a large NO<sub>x</sub> source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
  - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes. [204]
  - e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes; and sulfur compound which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes. [409]
  - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulation, except those listed in Table 1 of Rule 2001 for NO<sub>x</sub> RECLAIM sources and Table 2 of Rule 2001 for SO<sub>x</sub> RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO<sub>x</sub> or SO<sub>x</sub> emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO<sub>x</sub> or SO<sub>x</sub> source, respectively. [2001]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION E: ADMINISTRATIVE CONDITIONS**

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
  
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.
  - b. Brief description of the equipment tested.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Field and laboratory data forms, strip charts and analyses.
  - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
  
11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section E Page 4  
Facility I.D.#: 129816  
Revision #: 0  
Date: August 05, 2005

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION E: ADMINISTRATIVE CONDITIONS**

12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]



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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

**I. NOx Monitoring Conditions**

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NOx emissions rate from each source. The time-sharing of CEMS among NOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining:
  - a. compliance with the annual Allocation;
  - b. excess emissions;
  - c. the amount of penalties; and
  - d. fees.
5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining:
  - a. compliance with the annual Allocation;
  - b. excess emissions;
  - c. the amount of penalties; and
  - d. fees.



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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

**II. NOx Source Testing and Tune-up Conditions**

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NOx source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NOx concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]
3. All NOx large sources and NOx process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR  
RECLAIM SOURCES**

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

**I. Recordkeeping Requirements for all RECLAIM Sources**

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
  - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
  - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
  - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

**II. Reporting Requirements for all RECLAIM Sources**

1. The operator shall submit a quarterly certification of emissions including the facility's total NOx or SOx emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

**NOx Reporting Requirements**

- A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:
  1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major NOx source, the total daily mass emissions of NOx and daily status codes. Such data



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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR  
RECLAIM SOURCES**

shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2012]

2. Calculate NOx emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2012 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2012]
  3. Submit an electronic report within 15 days following the end of each month totaling NOx emissions from all major NOx sources during the month. [2012]
  4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2012]
- B. The Operator of a NOx Large Source, as defined in Rule 2012, shall:
- Not Applicable
- C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall:
1. Electronically report the calculated quarterly NOx emissions for each NOx process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
<b>System 1 : GAS TURBINE COMBUSTION</b>					
GAS TURBINE, CTG #1, NATURAL GAS, GENERAL ELECTRIC, MODEL S107H, (MAX RATING AT 36 DEGREES F), WITH LOW NOX BURNER, 2597 MMBTU/HR WITH A/N: 439481 Permit to Construct Issued: 08/05/05	D1	C17	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407,4-2-1982] ; CO: 3 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]  <sup>FDD</sup> H2S: 0.25 GRAINS/SCF NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002;RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]  NOX: 7.36 LBS/MMSCF NATURAL GAS (1) [RULE 2012,12-5-2003;RULE 2012,1-7-2005] ; NOX: 2 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988 RULE 2005,4-20-2001;RULE 2005,5-6-2005] ; NOX: 68.26 LBS/MMSCF NATURAL GAS (1) <sup>(1)</sup> <del>(5)</del> [RULE 2012,12-5-2003;RULE 2012,1-7-2005] ; NOX: <del>100</del> <sup>123</sup> PPMV NATURAL GAS (8) [40CFR 60 Subpart GG,3-6-1981]	A63.1, A99.1, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D29.1, D29.2, D82.1, D82.2, E193.1, E193.2, E193.3, I296.1, K40.1, K67.1

X  
  
X  
X

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements  
 \*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
				PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409,8-7-1981] ; PM: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978]  PM: 11 LBS/HR (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; PM10: 10 LBS/HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996  RULE 1303(a)(1)-BACT,12-6-2002;RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002] ; SO2: 150 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG,3-6-1981]  SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]  VOC: 1.4 PPMV NATURAL GAS (7) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 - COMBUSTION AND POWER GENERATION</b>					
GENERATOR, ELECTRIC, SERVING CTG/HRSG GROUP 1, 405 MW  GENERATOR, HEAT RECOVERY STEAM GENERATOR, HRSG #1					
OXIDIZER, CATALYTIC, #1, ENGELHARD WITH NOOTER <del>ERIKSEN CATALYST</del> A/N: 439488 Permit to Construct Issued: 08/05/05	C17	D1 C4			
SELECTIVE CATALYTIC REDUCTION, SERVING CTG/HRSG GROUP #1, NOOTER-ERIKSEN WITH <u>HALDDA TDPSE</u> CORNATECH CATALYST WITH A/N: 439488 Permit to Construct Issued: 08/05/05  AMMONIA INJECTION	C4	C17 S19		NES: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)- BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.7, D12.1, D12.2, D12.3, D29.3, D232.1, E179.1, E179.2, E193.1, E193.3
STACK, FOR CTG/HRSG #1, HEIGHT: 195 FT; DIAMETER: 22 FT A/N: 439481 Permit to Construct Issued: 08/05/05	S19	C4			
GAS TURBINE, CTG #2, NATURAL GAS, GENERAL ELECTRIC, MODEL S107H, (MAX RATINE AT 36 DEGREES F), WITH LOW NOX BURNER, 2597 MMBTU/HR WITH A/N: 439485 Permit to Construct Issued: 08/05/05	D2	C24	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; CO: 3 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5- 10-1996; RULE 1303(a)(1)- BACT, 12-6-2002]	A63.1, A99.1, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D29.1, D29.2, D82.1, D82.2, E193.1,

- \* (1) Denotes RECLAIM emission factor
- (2) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5)(5A)(5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: COMBUSTION AND POWER GENERATION</b>					
X				H2S: 0.25 GRAINS/SCF <sup>(1)</sup> <del>IDD</del> NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002;RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]  NOX: 68.26 LBS/MMSCF NATURAL GAS (1) [RULE 2012,12-5-2003;RULE 2012,1-7-2005] ; NOX: 2 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988 RULE 2005,4-20-2001;RULE 2005,5-6-2005] ; NOX: 7.36 LBS/MMSCF NATURAL GAS <sup>(1)</sup> <del>(5)</del> [RULE 2012,12-5-2003;RULE 2012,1-7-2005] ; NOX: <del>180</del> <sup>123</sup> PPMV NATURAL GAS (8) [40CFR 60 Subpart GG,3-6-1981]  PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409,8-7-1981] ; PM: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978]	E193.2, E193.3, I296.2, K40.1, K67.1
X					
X					

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
GENERATOR, HEAT RECOVERY STEAM GENERATOR, HRSG #2				PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; PM10: 10 LBS/HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996  RULE 1303(a)(1)-BACT,12-6-2002;RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002] ; SOX: 150 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG,3-6-1981]  SOX: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]  VOC: 1.4 PPMV NATURAL GAS (7) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	

- \* (1) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: COMBUSTION AND POWER GENERATION</b>					
GENERATOR, GENERATOR #2, SERVING CTG/HRSG GROUP 2, 405 MW					
OXIDIZER, #2, ENGELHARD WITH <del>NOOTER-ERIKSEN CATALYST</del> A/N: 439489 Permit to Construct Issued: 08/05/05	C24	D2 C5			
SELECTIVE CATALYTIC REDUCTION; SERVING CTG/HRSG #2, <del>NOOTER- ERIKSEN WITH CORMATECH</del> <b>HALDOR TOPSØE</b> CATALYST WITH A/N: 439489 Permit to Construct Issued: 08/05/05 AMMONIA INJECTION	C5	C24 S26		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)- BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.7, D12.1, D12.2, D12.3, D29.3, D232.1, E179.1, E179.2, E193.1, E193.3
STACK, FOR CTG/HRSG #2, HEIGHT: 195 FT; DIAMETER: 22 FT A/N: 439485 Permit to Construct Issued: 08/05/05	S26	C5			
<b>System 2: AUXILIARY EQUIPMENT</b>					
BOILER, AUXILIARY BOILER, NATURAL GAS, WITH LOW NOX BURNER, 157 MMBTU/HR A/N: 439492 Permit to Construct Issued: 08/05/05	D3	C6	NOX: MAJOR SOURCE**	CO: 400 PPMV NATURAL GAS (5A) [RULE 1146,11-17- 2008] ; CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(b)(2)-O&M,5-10-1996]	A63.2, A99.2, A195.4, A195.5, A195.6, B61.1, C1.2, D29.4, D82.3, D82.4, E193.1, E193.3, I296.3, K40.2

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
				CO: 2000 PPMV NATURAL GAS (5) [RULE 407,4-2-1982] ; H2S: 0.25 GRAINS/SCF NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(b)(2)-Offset,5-10-1996]  NOX: 8.36 LBS/MMSCF NATURAL GAS (1) [RULE 2012,12-5-2003;RULE 2012,1-7-2005] ; NOX: 7 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis,10-7-1988  RULE 2005,4-20-2001;RULE 2005,5-6-2005] ; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409,8-7-1981] ; VOC: 10 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996.  PM10: <u>7.26 lbs/MMSCF</u> (BACT)	160
SELECTIVE CATALYTIC REDUCTION, FOR AUXILIARY BOILER, <del>NO OTHER EMISSIONS WITH CORMATECH</del> CATALYST WITH A/N: 439493 Permit to Construct Issued: 08/05/05	C6	D3 S31		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.8, D12.1, D12.2, D12.3, D29.3, D232.2, E179.1, E179.2, E193.1, E193.3

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
<b>AMMONIA INJECTION</b>					
STACK, FOR AUXILIARY BOILER, HEIGHT: 100 FT; DIAMETER: 4 FT A/N: 439492 Permit to Construct Issued: 08/05/05	S31	C6			
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, LEAN BURN, EMERGENCY GENERATOR #1, DIESEL FUEL, CATEPILLAR, MODEL 3516B DITA, WITH PERMIT CATALYTIC/PARTICULATE FILTER, 2848 BHP WITH A/N: 439494 Permit to Construct Issued: 08/05/05	D9		NOX: PROCESS UNIT**	CO: 0.045 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; NOX: 270 LBS/1000 GAL DIESEL (1) [RULE 2012,12-5- 2003  RULE 2012,1-7-2005] ; NOX: 6.2 GRAM/BHP-HR DIESEL (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,4- 20-2001;RULE 2005,5-6-2005]  PM10: 0.015 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 0.03 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6- 2002]	C1.1, D12.4, D12.5, E193.1, E193.3, I296.4, K67.2

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
GENERATOR, 2000 KW					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, LEAN BURN, EMERGENCY GENERATOR, #2, DIESEL FUEL, CATEPILLAR, MODEL 3516B DITA, WITH PERMIT CATALYTIC/PARTICULATE FILTER, 2848 BHP WITH A/N: 439495 Permit to Construct Issued: 08/05/05	D10		NOX: PROCESS UNIT**	CO: 0.045 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; NOX: 270 LBS/1000 BHP-HR DIESEL (1) [RULE 2012,12-5- 2003  RULE 2012,1-7-2005] ; NOX: 6.2 GRAM/BHP-HR DIESEL (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,4- 20-2001;RULE 2005,5-6-2005]  PM10: 0.015 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 0.03 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6- 2002]	C1.1, D12.4, D12.5, E193.1, E193.3, I296.4, K67.2
GENERATOR, 2000 KW					

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements  
\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : COMBUSTION AND POWER GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, EMERGENCY FIRE PUMP ENGINE, DIESEL FUEL, CLARKE, MODEL JW6H-UF40, 300 BHP A/N: 439496 Permit to Construct Issued: 08/05/05	D32		NOX: PROCESS UNIT**	CO: 0.3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; NOX: 240 LBS/1000 GAL DIESEL (1) [RULE 2012,12-5-2003  RULE 2012,1-7-2005] ; NOX: 5.2 GRAM/BHP-HR DIESEL (4) [RULE 1703 - PSD Analysis,10-7-1988;RULE 2005,4-20-2001;RULE 2005,5-6-2005]  PM10: 0.1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 0.2 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996  RULE 1303(a)(1)-BACT,12-6-2002]	C1.1, D12.4, D12.5, E193.1, E193.3, I296.5, K67.2
<b>Process 2 : INORGANIC CHEMICAL STORAGE</b>					
<b>System 1 : AMMONIA STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, #1, AQUEOUS AMMONIA 28 %, 16000 GALS; DIAMETER: 10 FT; LENGTH: 26 FT A/N: 439497 Permit to Construct Issued: 08/05/05	D7				C157.1, E144.1, E193.1, E193.3

- \* (1) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

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Facility I.D.:	129816
Revision #:	0
Date:	August 05, 2005

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**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

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**SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2 : INORGANIC CHEMICAL STORAGE</b>					
STORAGE TANK, FIXED ROOF, #2, AQUEOUS AMMONIA 28 %, 16000 GALS; DIAMETER: 10 FT; LENGTH: 26 FT A/N: 439498 Permit to Construct Issued: 08/05/05	D8				C157.1, B144.1, E193.1, E193.3

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section H Page: 13  
Facility I.D.: 129816  
Revision #: 0  
Date: August 05, 2005

**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: DEVICE ID INDEX**

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D1	1	1	1
D2	3	1	1
D3	6	1	2
C4	3	1	1
C5	6	1	1
C6	7	1	2
D7	10	2	1
D8	11	2	1
D9	8	1	2
D10	9	1	2
C17	3	1	1
S19	3	1	1
C24	6	1	1
S26	6	1	1
S31	8	1	2
D32	10	1	2



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

**FACILITY CONDITIONS**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 9-11-1998]

F14.1 The operator shall not burn diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 3-4-2005; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase fuel oil containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

**DEVICE CONDITIONS**

**A. Emission Limits**



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than 9728 LBS IN ANY ONE MONTH
PM10	Less than 7440 LBS IN ANY ONE MONTH
<del>REG</del> <u>VOC</u>	Less than 3769 LBS IN ANY ONE MONTH
SOX	Less than 1362 LBS IN ANY ONE MONTH

X

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: PM10 3.91 lbs/MMscf, VOC 1.79 lbs/MMscf, SOx 0.71 lbs/MMscf.

The operator shall calculate the emission limit(s) for CO, during the commissioning period, using fuel consumption data and the following emission factor: 22.19 lb/MMscf.

The operator shall calculate the emission limit(s) for CO, after the commissioning period and prior to the CO CEMS certification, using fuel consumption data and the following emission factor: 4.48 lbs/MMscf.

The operator shall calculate the emission limit(s) for CO, after the CO CEMS certification, based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions shall be calculated in accordance with the approved CEMS plan.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D1, D2]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than 1113 LBS IN ANY ONE MONTH
PM10	Less than 218 LBS IN ANY ONE MONTH
<del>REG</del> <u>VOC</u>	Less than 127 LBS IN ANY ONE MONTH
SOX	Less than 21 LBS IN ANY ONE MONTH

X

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: CO 36.92 lb/MMscf, PM10 7.26 lbs/MMscf, VOC 4.22 lbs/MMscf, SOx 0.71 lbs/MMscf.

The operator shall calculate the emission limit(s) for CO, after the CO CEMS certification, based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions shall be calculated in accordance with the approved CEMS plan.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D3]

A99.1 The 68.26 LBS/MMSCF NOX emission limit(s) shall only apply during the commissioning period.

[RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D1, D2]

A99.2 The 8.49 LBS/MMSCF NOX emission limit(s) shall only apply during the interim reporting period to report RECLAIM emissions..

[RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D3]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

A99.3 The 7.36 LBS/MMSCF NOX emission limit(s) shall only apply during the interim reporting period after the commissioning period.

[RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D1, D2]

A195.1 The 2.0 PPMV NOX emission limit(s) is averaged over 1-hour, dry basis at 15% O<sub>2</sub>. This limit shall not apply to turbine commissioning, startup and shutdown periods. The limit shall not apply to the first fifteen 1-hour average NOx emissions above 2.0 ppmv, dry basis at 15% O<sub>2</sub>, in any rolling 12-month period for each combustion gas turbine provided that it meets all of the following requirements.

X  
combustor-  
tuning  
activities

A. This equipment operates under any one of the qualified conditions described below: 1) rapid combustion turbine load changes initiated by the California ISO or a successor entity when the plant is operating under Automatic Generation Control; 2) rapid combustion turbine load changes due to activation of a plant automatic safety or equipment protection system which rapidly decreases turbine load.

B). This equipment operates under any one of the qualified conditions described below: 1) The first two 1-hour reporting periods following the initiation/shutdown of the inlet air chilling system, 2) Events as the result of technological limitation identified by the operator and approved in writing by the AQMD Executive Officer or his designees.

C. The 1-hour average NOx emissions above 2.0 ppmv, dry basis at 15% O<sub>2</sub>, did not occur as a result of operator neglect, improper operation or maintenance, or qualified breakdown under Rule 2004(i).

D. The qualified operating conditions described in (A) above are recorded in the plant's operating log within 24 hours of the event, and in the CEMS by 5 p.m. the next business day following the qualified operating condition. The notations in the log and CEMS must describe the data and time of entry into the log/CEMS and the plant operating conditions responsible for NOx emissions exceeding the 2.0 ppmv 1-hour average limit.

E. The 1-hour average NOx concentration for periods that result from a qualified operating condition does not exceed 25 ppmv, dry basis at 15 percent O<sub>2</sub>.

All NOx emissions during these events shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D1, D2]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

- X A195.2 The 3.0 PPMV CO emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning-startup and shutdown periods.  
*combustor-tuning activities*  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]  
[Devices subject to this condition : D1, D2]
- X A195.3 The 2.0 PPMV VOC emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen.  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]  
[Devices subject to this condition : D1, D2]  
*This limit shall not apply to turbine commissioning combustor-tuning activities, startup and shutdown periods.*
- A195.4 The 7.0 PPMV NOX emission limit(s) is averaged over 1 hour at 3 percent oxygen, dry basis.  
[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]  
[Devices subject to this condition : D3]  
*Shutdown periods.*
- A195.5 The 50 PPMV CO emission limit(s) is averaged over 1 hours at 3 percent oxygen, dry basis.  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]  
[Devices subject to this condition : D3]
- A195.6 The 10 PPMV VOC emission limit(s) is averaged over 1 hour at 3 percent oxygen, dry basis.  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]  
[Devices subject to this condition : D3]
- A195.7 The 5 PPMV NH3 emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry basis.  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]  
[Devices subject to this condition : C4, C5]



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

A195.8 The 5 PPMV NH3 emission limit(s) is averaged over 1 hour at 3 percent oxygen, dry basis.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C6]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D1, D2]

**B. Material/Fuel Type Limits**

B61.1 The operator shall not use natural gas containing the following specified compounds:

Compound	grain per 100 scf
H2S greater than	0.25

X

This concentration limit is an annual average based on monthly sample of natural gas composition,

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D1, D2, D3]

or gas supplier  
documentation.

**C. Throughput or Operating Parameter Limits**



**FACILITY PERMIT TO OPERATE  
INLAND EMPIRE ENERGY CENTER, LLC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

C1.1 The operator shall limit the operating time to no more than 50 hour(s) in any one year.

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 3-4-2005; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D9, D10, D32]

C1.2 The operator shall limit the fuel usage to no more than 30.17 MM cubic feet per month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the auxiliary boiler.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D3]

X C157.1 The operator shall install and maintain a pressure relief valve with a minimum pressure set at 25 psig.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

or higher

[Devices subject to this condition : D7, D8]

**D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH<sub>3</sub>).

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : C4, C5, C6]



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The operator shall comply with the terms and conditions set forth below:

- D12.2 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the SCR reactor.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : C4, C5, C6]

- D12.3 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inched water column.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : C4, C5, C6]

- D12.4 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D9, D10, D32]

- D12.5 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the engine.

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D9, D10, D32]



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The operator shall comply with the terms and conditions set forth below:

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
SOX emissions	Approved District method	District-approved averaging time	Fuel Sample
<del>REG</del> <sup>VOC</sup> emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate. The gas turbine <sup>combined</sup> generating output in MW shall also be recorded if applicable. ~~and steam turbine~~

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

For gas turbines only the VOC test shall use the following method: a) Stack gas samples are extracted into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of Summa canisters is done with zero gas analyzed/certified to having less than 0.05 ppmv total hydrocarbons as carbon, and c) Analysis of Summa canisters is per EPA Method TO-12 (with pre-concentration) and the canisters temperature when extracting samples for analysis is not to be below 70 degrees F.

The use of this alternative VOC test method is solely for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines. Because the BACT level was set using data derived from various source test methods, this alternate method provides a fair comparison and



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The operator shall comply with the terms and conditions set forth below:

represents the best sampling and analysis technique for this purpose at this time. The test results must be reported with two significant digits.

X The test shall be conducted when this equipment is operating at loads of 100, 75, and 50 percent of maximum load for the NOx, CO, VOC, and ammonia tests. (50% or the minimum compliant load achieved)

The test shall be conducted when this equipment is operating at 100% of maximum load for the PM test.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-4-2005; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001]

[Devices subject to this condition : D1, D2]



AQMD

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The operator shall comply with the terms and conditions set forth below:

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
SOX emissions	Approved District method	District-approved averaging time	Fuel Sample
X VOC <del>ROG</del> emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment

The test(s) shall be conducted at least once every three years.

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted when the gas turbine is operating at 100 percent of maximum heat input.

For gas turbines only the VOC test shall use the following method: a) Stack gas samples are extracted into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of Summa canisters is done with zero gas analyzed/certified to having less than 0.05 ppmv total hydrocarbons as carbon, and c) Analysis of Summa canisters is per EPA Method TO-12 (with pre-concentration) and the canisters temperature when extracting samples for analysis is not to be below 70 degrees F.

The use of this alternative VOC test method is solely for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines. Because the BACT level was set using data derived from various source test methods, this alternate method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results must be reported with two significant digits.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration and/or monthly emissions limit.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D1, D2]



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The operator shall comply with the terms and conditions set forth below:

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10-days prior to the test.

The test(s) shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The NOx concentration, as determined by the certified CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable or not yet certified, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C4, C5, C6]



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The operator shall comply with the terms and conditions set forth below:

D29.4 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	1 hour	Outlet
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate.

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at 100 percent of maximum load for the NOx, CO and ammonia tests.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-4-2005; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D3]



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The operator shall comply with the terms and conditions set forth below:

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated to measure CO concentration over a 15 minute averaging time period

The CEMS shall be installed and operated, in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD

no later than 90 days after initial startup of the turbine

The CEMS shall be installed and in operation and Rule 218 testing submitted to the AQMD at the conclusion of the turbine commissioning period ~~prior to base load commercial operation.~~ shall be completed and

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 218, 8-7-1981; RULE 218, 5-14-1999]

[Devices subject to this condition : D1, D2]

within 90 days of

X  
X



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The operator shall comply with the terms and conditions set forth below:

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 12 months after initial start-up of the turbine and shall comply with the requirements of Rule 2012. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within two weeks of the turbine startup date, the operator shall provide written notification to the District of the exact date of start-up

X no later than 90 days after initial startup of the turbine shall be completed and submitted to the AQMD within 90 days of the conclusion of the turbine commissioning period ~~prior to base load commercial operation.~~

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D1, D2]



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The operator shall comply with the terms and conditions set forth below:

D82.3 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated, in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD

The CEMS shall be installed and operated to measure CO concentration over a 15 minute averaging time period

The CEMS shall be installed The CEMS shall be installed and operating no later than 90 days after initial startup of the boiler

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 218, 8-7-1981; RULE 218, 5-14-1999]

[Devices subject to this condition : D3]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 12 months after initial start-up of the boiler and shall comply with the requirements of Rule 2012. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within two weeks of the boiler startup date, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and operating no later than 90 days after initial startup of the boiler.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D3]

The CEMS shall be in operation and Rule 2012 provisional RATA testing submitted to the AQMD within 90 days of the conclusion of the boiler commissioning period.



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The operator shall comply with the terms and conditions set forth below:

X D232.1 ~~The operator shall install and maintain a continuous emission monitoring device to accurately indicate the ammonia concentration at the SCR outlet, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 15% oxygen. It shall continuously monitor or calculate, and record the following parameters.~~

~~Ammonia concentration, uncorrected in ppmv~~

~~Oxygen concentration in percent~~

~~Ammonia concentration in ppmv, corrected to 15% oxygen~~

~~Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 15% oxygen~~

~~The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and remedial actions to reduce ammonia levels once an exceedance has occurred~~

~~The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia~~

~~The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the turbine~~

See calculation approach in

Insert A.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C4, C5]

D232.1 The operator shall install, operate, and maintain an approved Continuous Emission Monitoring Device, approved by the Executive Officer, to monitor and record ammonia concentrations, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 15% oxygen. It shall continuously monitor, compute, and record the following parameters:

Ammonia concentration, uncorrected in ppmv

Oxygen concentration in percent

Ammonia concentration in ppmv, corrected to 15% oxygen

Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 15% oxygen

The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the AQMD Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and remedial actions to reduce ammonia levels once a violation has occurred.

The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia.

The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the turbine.

X  
Insert A.

The operator shall calculate and continuously record the NH3 slip concentration using the following:  $NH_3(ppmvd) = [a - b * (c * 1.2) / 1E6] * 1E6 / b$ , where a = NH3 injection rate (lb/hr) / 17 (lb/lbmol), b = dry exhaust flow rate (scf/hr) / (385.5 scf/lbmol), c = change in measured NOx across the SCR, ppmvd at 15 percent O2. The operator shall install a NOx analyzer to measure the SCR inlet NOx ppm accurate to within +/- 5 percent calibrated at least once every 12 months. The operator shall use the method described above or another alternative method approved by the Executive Officer. The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia. The ammonia slip calculation procedure shall be in-effect no later than 90 days after initial startup of the turbine.



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The operator shall comply with the terms and conditions set forth below:

X

~~D232.2 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the ammonia concentration at the SCR outlet, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 3% oxygen. It shall continuously monitor or calculate, and record the following parameters:~~

~~Ammonia concentration, uncorrected in ppmv~~

~~Oxygen concentration in percent~~

~~Ammonia concentration in ppmv, corrected to 3% oxygen~~

~~Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 3% oxygen~~

~~The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and remedial actions to reduce ammonia levels once an exceedance has occurred.~~

~~The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia.~~

~~The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the boiler.~~

X

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C6]

See calculation  
approach in  
Insert B.

**E. Equipment Operation/Construction Requirements**

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D7, D8]

D232.2

~~The operator shall install, operate, and maintain an approved Continuous Emission Monitoring Device, approved by the Executive Officer, to monitor and record ammonia concentrations, and alert the operator (via audible or visible alarm) whenever ammonia concentrations are near, at, or in excess of the permitted ammonia limit of 5 ppmv, corrected to 3% oxygen. It shall continuously monitor, compute, and record the following parameters:~~

~~Ammonia concentration, uncorrected in ppmv~~

~~Oxygen concentration in percent~~

~~Ammonia concentration in ppmv, corrected to 3% oxygen~~

~~Date, time, extent (in time) of all excursions above 5 ppmv, corrected to 3% oxygen~~

~~The Continuous Emission Monitoring Device described above shall be operated and maintained according to a Quality Assurance Plan (QAP) approved by the AQMD Executive Officer. The QAP must address contingencies for monitored ammonia concentrations near, at, or above the permitted compliance limit, and remedial actions to reduce ammonia levels once a violation has occurred.~~

~~The Continuous Emission Monitoring Device may not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia.~~

~~The Continuous Emission Monitoring Device shall be installed and operating no later than 90 days after initial startup of the boiler.~~

X

Insert  
B

The operator shall calculate and continuously record the NH<sub>3</sub> slip concentration using the following:  $NH_3(ppmvd)=[a-b*(c*1.2)/1E6]*1E6/b$ , where a=NH<sub>3</sub> injection rate (lb/hr)/17(lb/lbmol), b= dry exhaust flow rate (scf/hr)/(385.5 scf/lbmol), c = change in measured NO<sub>x</sub> across the SCR, ppmvd at 3 percent O<sub>2</sub>. The operator shall install a NO<sub>x</sub> analyzer to measure the SCR inlet NO<sub>x</sub> ppm accurate to within +/- 5 percent calibrated at least once every 12 months. The operator shall use the method described above or another alternative method approved by the Executive Officer. The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using an approved reference method for the determination of ammonia. The ammonia slip calculation procedure shall be in-effect no later than 90 days after initial startup of the boiler.



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The operator shall comply with the terms and conditions set forth below:

E179.1 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated upon the average of the continuous monitoring for that hour.

Condition Number D 12- 1

Condition Number D 12- 2

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : C4, C5, C6]

E179.2 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that month.

Condition Number D 12- 3

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : C4, C5, C6]

E193.1 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

X  
In accordance with all <sup>air quality</sup> mitigation measures stipulated in the Final Energy Commission Decision for 01-AFC-17 project and its Amendment 1.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D1, D2, D3, C4, C5, C6, D7, D8, D9, D10, D32]



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The operator shall comply with the terms and conditions set forth below:

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

The commissioning period shall not exceed 509 hours of operation for both turbines during the first 180 calendar days from the date of initial start-up.

X  
X  
X

Startup/shutdown time shall not exceed 4 hours per day per gas turbine, except for a cold startup <sup>and combustor-tuning activities</sup> which shall not exceed 6 hours per day per gas turbine. For purposes of this condition a cold startup shall be defined as a startup of the gas turbine after 72 hours of non-operation. ↑

~~Monthly startup/shutdown time shall not exceed 31 hours.~~ ↑

The operator shall provide the AQMD with written notification of the initial startup date. Written records of commissioning, startups, and shutdowns shall be maintained and made available upon request from AQMD

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D1, D2]

E193.3 The operator shall operate and maintain this equipment according to the following requirements:

Within 6 months of permit issuance, the Permittee will sign a Memorandum of Understanding with the U.S. Forest Service to participate in a visibility monitoring project, the results of which will be used to establish a visibility baseline in nearby Class 1 Areas.

[RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D1, D2, D3, C4, C5, C6, D7, D8, D9, D10, D32]

**I. Administrative**

Combustor-tuning activities shall be defined as all testing, adjusting, tuning, and calibration activities recommended by the turbine manufacturer to ensure safe, reliable, and in-specification operation of the turbine.

Startup/shutdown and combustor-tuning activity emissions shall not exceed 408 lbs/hr NDx and 95 lbs/hr CD. The startup/shutdown and combustor-tuning activity emissions shall not exceed 803 lbs/event NDx and 300 lbs/event CD.



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The operator shall comply with the terms and conditions set forth below:

- I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 165,612 lbs. This condition shall apply during the 1st 12 months of operation, commencing with the initial operation of the gas turbine.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum NOx RTCs of 158,943 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : .D1]

- I296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 152,218 lbs. This condition shall apply during the 1st 12 months of operation, commencing with the initial operation of the gas turbine.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum NOx RTCs of 158,943 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D2]



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**FACILITY PERMIT TO OPERATE  
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**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

- 1296.3 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 790 lbs. This condition shall apply during the 1st 12 months of operation.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum NOx RTCs of 790 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D3]

- 1296.4 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 1,946 lbs. This condition shall apply during the 1st 12 months of operation.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum NOx RTCs of 1,946 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D9, D10]



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**FACILITY PERMIT TO OPERATE  
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**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

1296.5 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 172 lbs. This condition shall apply during the 1st 12 months of operation.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum NOx RTCs of 172 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D32]

**K. Record Keeping/Reporting**



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**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]

[Devices subject to this condition : D1, D2]



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**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

The operator shall comply with the terms and conditions set forth below:

K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv) corrected to 3 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 3 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[~~RULE 1303(a)(1)-BACT, 5-10-1996~~; ~~RULE 1303(a)(1)-BACT, 12-6-2002~~; ~~RULE 1303(b)(2)-Offset, 5-10-1996~~; ~~RULE 1303(b)(2)-Offset, 12-6-2002~~; ~~RULE 1703 - PSD Analysis, 10-7-1988~~; ~~RULE 2005, 4-20-2001~~; ~~RULE 2005, 5-6-2005~~]

[Devices subject to this condition : D3]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Natural gas fuel use during the commissioning period

[~~RULE 2012, 12-5-2003~~; ~~RULE 2012, 1-7-2005~~]

[Devices subject to this condition : D1, D2]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Date of operation, the elapsed time, in hours, and the reason for operation.

[~~RULE 1110.2, 11-14-1997~~; ~~RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996~~; ~~RULE 1304(c)-Offset Exemption, 6-14-1996~~]

[Devices subject to this condition : D9, D10, D32]



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**SECTION I: PLANS AND SCHEDULES**

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.



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**SECTION J: AIR TOXICS**

**NOT APPLICABLE**



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**SECTION K: TITLE V Administration**

**GENERAL PROVISIONS**

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

**Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that the initial Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

**Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

**Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

**Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
  - (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.



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- (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

**COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
- (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

- (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
- (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]



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11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]
14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
  - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
  - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
  - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
  - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
  - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
  - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after



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commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



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**EMERGENCY PROVISIONS**

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
    - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
    - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
    - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
    - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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<sup>1</sup> "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



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**RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
  - (B) The date(s) analyses were performed;
  - (C) The company or entity that performed the analyses;
  - (D) The analytical techniques or methods used;
  - (E) The results of such analyses; and
  - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(o)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

**REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision. (i) of Rule 2004 - Requirements, whichever is applicable.
  - (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.



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- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
  - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;
  - (B) The compliance status during the reporting period;
  - (C) Whether compliance was continuous or intermittent;
  - (D) The method(s) used to determine compliance over the reporting period and currently, and
  - (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]



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**PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]



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**SECTION K: TITLE V Administration**

**FACILITY RULES**

*This facility is subject to the following rules and regulations:*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 109	5-2-2003	Federally enforceable
RULE 1110.2	11-14-1997	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-9-2004	Non federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-6-2005	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable
RULE 1401	3-4-2005	Non federally enforceable
RULE 1404	4-6-1990	Non federally enforceable
RULE 1470	3-4-2005	Non federally enforceable
RULE 1703 - PSD Analysis	10-7-1988	Federally enforceable
RULE 2005	4-20-2001	Federally enforceable
RULE 2005	5-6-2005	Non federally enforceable
RULE 2012	1-7-2005	Non federally enforceable
RULE 2012	12-5-2003	Federally enforceable
RULE 218	5-14-1999	Non federally enforceable
RULE 218	8-7-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable



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<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 475	10-8-1976	Federally enforceable
RULE 475	8-7-1978	Non federally enforceable
40CFR 60 Subpart GG	3-6-1981	Federally enforceable
40CFR 68 - Accidental Release Prevention	5-24-1996	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 72 - Acid Rain Provisions	11-24-1997	Federally enforceable
CA PRC CEQA	11-23-1970	Non federally enforceable



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**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN  
PERMIT PURSUANT TO RULE 219**

NONE



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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 11-8-1996]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

**TABLE OF STANDARDS**  
**VOC LIMITS**

**Grams of VOC Per Liter of Coating,  
Less Water And Less Exempt Compounds**

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250						
Graphic Arts (Sign) Coatings	500				100		50
Industrial Maintenance							



**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 11-8-1996]**

Primers and Topcoats					
Alkyds	420				
Catalyzed Epoxy	420				
Bituminous Coatings	420				
Materials					
Inorganic Polymers	420				
Vinyl Chloride Polymers	420				
Chlorinated Rubber	420				
Acrylic Polymers	420				
Urethane Polymers	420				
Silicones	420				
Unique Vehicles	420				
Japans/Faux Finishing	350	700		350	
Coatings					
Magnesite Cement Coatings	600			450	
Mastic Coatings	300				
Metallic Pigmented Coatings	500				
Multi-Color Coatings	420		250		
Pigmented Lacquer	680		550		275
Pre-Treatment Wash Primers	780				
Primers, Sealers, and	350				
Undercoaters					
Quick-Dry Enamels	400				
Roof Coatings	300				
Shellac					
Clear	730				
Pigmented	550				
Stains	350				
Swimming Pool Coatings					
Repair	650				
Other	340				
Traffic Coatings	250		150		
Waterproofing Sealers	400				
Wood Preservatives					
Below-Ground	350				
Other	350				

\* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards



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**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 11-8-1996]**

**TABLE OF STANDARDS (cont.)**

**VOC LIMITS**

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120



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**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 7-9-2004]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.



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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 7-9-2004]**

**TABLE OF STANDARDS**  
**VOC LIMITS**

**Grams of VOC Per Liter of Coating,  
Less Water and Less Exempt Compounds**

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350									
Clear Wood Finishes										
Varnish	350							275		
Sanding Sealers	350							275		
Lacquer	680	550					275			
Clear Brushing Lacquer	680						275			
Concrete-Curing Compounds	350									
Dry-Fog Coatings	400									
Fire-Proofing Exterior Coatings	450		350							
Fire-Retardant Coatings										
Clear	650									
Pigmented	350									
Flats	250			100						50
Floor Coatings	420				100			50		
Graphic Arts (Sign) Coatings	500									
Industrial Maintenance (IM) Coatings	420					250		100		
High Temperature IM Coatings**					420					
Zinc-Rich IM Primers	420				340			100		
Japans/Faux Finishing Coatings	700		350							
Magnesite Cement Coatings	600		450							
Mastic Coatings	300									
Metallic Pigmented Coatings	500									
Multi-Color Coatings	420	250								
Non-Flat Coatings	250				150			50		
Pigmented Lacquer	680	550					275			
Pre-Treatment Wash Primers	780				420					



**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1113 7-9-2004]**

COATING	Limit *	Effective Date								
		1/1/98	1/1/99	7/1/01	1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Primers, Sealers, and Undercoaters	350				200			100		
Quick-Dry Enamels	400				250			50		
Quick-Dry Primers, Sealers, and Undercoaters	350				200			100		
Recycled Coatings					250					
Roof Coatings	300				250		50			
Roof Coatings, Aluminum	500						100			
Roof Primers, Bituminous	350				350					
Rust Preventative Coatings	420				400			100		
Shellac										
Clear	730									
Pigmented	550									
Specialty Primers	350							100		
Stains	350				250				100	
Stains, Interior	250									
Swimming Pool Coatings										
Repair	650				340					
Other	340									
Traffic Coatings	250	150								
Waterproofing Sealers	400				250			100		
Waterproofing Concrete/Masonry Sealers	400							100		
Wood Preservatives										
Below-Ground	350									
Other	350									

\* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards  
\*\* The National VOC Standard at 650 g/l is applicable until 1/1/2003



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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1113 7-9-2004]**

**TABLE OF STANDARDS (cont.)  
VOC LIMITS**

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120



**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 11-7-2003]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)



**FACILITY PERMIT TO OPERATE**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)



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**FACILITY PERMIT TO OPERATE**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 11-7-2003]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)



**FACILITY PERMIT TO OPERATE**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 5-6-2005]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals			



**FACILITY PERMIT TO OPERATE**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1171 5-6-2005]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)	25 (0.21)	
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	750 (6.3)	100 (0.83)	
(B) Packaging	25 (0.21)		
(iv) Lithographic or Letter Press Printing			
(A) Roller Wash – Step 1	600 (5.0)	500 (4.2)	100 (0.83)



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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1171 5-6-2005]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)	500 (4.2)	100 (0.83)
(C) Removable Press Components	25 (0.21)		
(v) Screen Printing	750 (6.3)	500 (4.2)	100 (0.83)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)	500 (4.2)	100 (0.83)
(vii) Specialty Flexographic Printing	600 (5.0)	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

\* The specified limits remain in effect unless revised limits are listed in subsequent columns.



**FACILITY PERMIT TO OPERATE**  
**INLAND EMPIRE ENERGY CENTER, LLC**

**APPENDIX B: RULE EMISSION LIMITS**  
**[40CFR 72 - Acid Rain Provisions 11-24-1997]**

1. A Title V permit revision is not required for emission increases that are authorized by allowances acquired under the Acid Rain Program, provided that the increases do not trigger a Title V permit revision under any other applicable requirement. [70.6 (a)(4)(ii)]

**Monitoring Requirements**

2. The owners and operators and, to the extent applicable, the designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Parts 74, 75, and 76. [40 CFR 72.50, 72.31, 72.9(b)(1)]
3. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide (SO<sub>2</sub>) under the Acid Rain Program. [40 CFR 72.9(b)(2), 40 CFR 75.2]
4. The requirements of 40 CFR Parts 74 and 75 shall not affect the responsibility of the operator to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements and other provisions of this permit. [40 CFR 72.9(b)(3), 40 CFR 72.5]

**Sulfur Dioxide Requirements**

5. The owners and operators of each source and each affected unit at the source shall:
  - (A) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR Part 73, Section 73.34(C)) not less than the total annual emissions of SO<sub>2</sub> for the previous calendar year from the unit; and, [40 CFR 72.9(c)(i)],
  - (B) Comply with the applicable acid rain emissions limitations for SO<sub>2</sub>. [40 CFR 72.9(c)(ii)]
6. Each ton of SO<sub>2</sub> emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 72.9(g)(7)]
7. SO<sub>2</sub> allowances shall be held in, deducted from, or transferred among allowance tracking system accounts in accordance with the Acid Rain Program. [40 CFR 72.9(g)(4)]



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
[40CFR 72 - Acid Rain Provisions 11-24-1997]**

8. A SO<sub>2</sub> allowance shall not be deducted in order to comply with the requirements under paragraph 41(A) of the SO<sub>2</sub> requirements prior to the calendar year for which the allowance was allocated. [40 CFR 72.9(g)(5)]
9. An affected unit shall be subject to the SO<sub>2</sub> requirements under the Acid Rain Program as follows:[40 CFR 72.6(a)]
  - (A) Starting January 1, 2000, an affected unit under 40 CFR Part 72, Section 72.6(a)(2); or [40 CFR 72.6(a)(2)]
  - (B) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR Part 72, Section 72.6(a)(3). [40CFR 72.6(a)(3)]
10. An allowance allocated by the EPA administrator under the Acid Rain Program is a limited authorization to emit SO<sub>2</sub> in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the acid rain permit application, the acid rain permit, or the written exemption under 40 CFR Part 72, Sections 72.7; 72.8, or 72.14, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40.CFR 72.9 (c)(6)]
11. An allowance allocated by the EPA Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72.9(c)(7)]

**Excess Emissions Requirements**

12. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77. [40 CFR 72.9(e)]
13. The owners and operators of an affected unit that has excess emissions in any calendar year shall: [40 CFR 72.9(e)(2)]
  - (A) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and[40 CFR 72.9(e)(2)(i)]
  - (B) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR 72.9(e)(2)(ii)]



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**APPENDIX B: RULE EMISSION LIMITS**  
**[40CFR 72 - Acid Rain Provisions 11-24-1997]**

**Recordkeeping and Reporting Requirements**

14. Unless otherwise provided, the owners and operators of the source and each affected unit at the source that are subject to the acid rain provisions under Title IV shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the EPA Administrator or the Executive Officer: [40 CFR 72.9(f)(1)]
- (A) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative; [40 CFR 72.9(f)(1)(i)]
- (B) All emissions monitoring information, in accordance with 40 CFR Part 75; [40 CFR 72.9(f)(1)(ii)]
- (C) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and, [40 CFR 72.9(f)(1)(iii)]
- (D) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program. [40 CFR 72.9(f)(1)(iv)]
15. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75. [40 CFR 72.9(f)(2)]

**Liability**

16. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to Section 113(c) of the Act. [40 CFR 72.9 (g)(1)]



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**APPENDIX B: RULE EMISSION LIMITS**  
**[40CFR 72 - Acid Rain Provisions 11-24-1997]**

17. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Act and 18 U.S.C. 1001. [40 CFR 72.9 (g)(2)]
18. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect. [40 CFR 72.9 (g)(3)]
19. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program. [40 CFR 72.9 (g)(4)]
20. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. [40 CFR 72.9 (g)(5)]
21. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR Part 72, Section 72.44 (Phase II repowering extension plans) and 40 CFR Part 76, Section 76.11 (NOx averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR Part 75, Sections 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative. [40 CFR 72.9 (g)(6)]
22. Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act. [40 CFR 72.9 (g)(7)]

**Effect on Other Authorities**

23. No provision of the Acid Rain Program, an acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14 shall be construed as: [40 CFR 72.9 (h)]



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**FACILITY PERMIT TO OPERATE**  
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**APPENDIX B: RULE EMISSION LIMITS**  
**[40CFR 72 - Acid Rain Provisions 11-24-1997]**

(A) Except as expressly provided in Title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of Title I of the Act relating to applicable National Ambient Air Quality Standards or state implementation plans; [40 CFR 72.9 (h)(1)]

(B) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act; [40 CFR 72.9 (h)(2)]

(C) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law; [40 CFR 72.9 (h)(3)]

(D) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or, [40 CFR 72.9 (h)(4)]

(E) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established. [40 CFR 72.9 (h)(5)]